

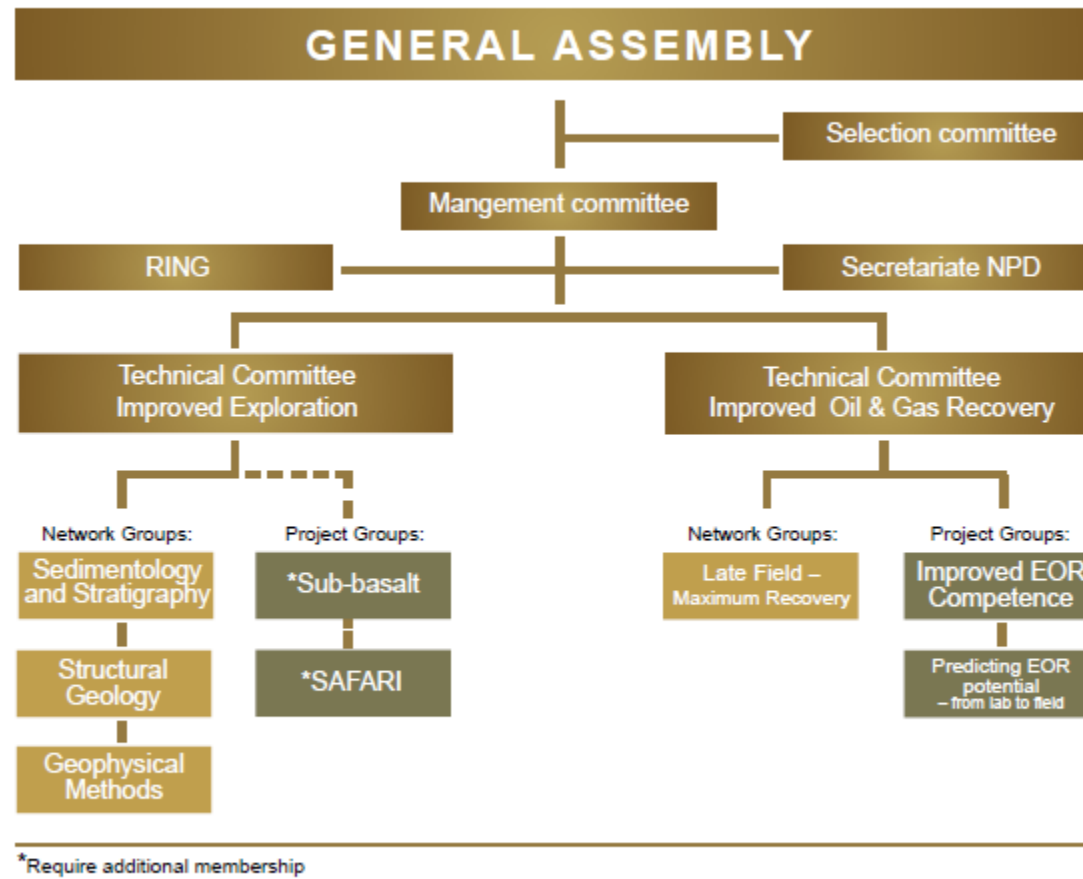


FORCE is a co-operating forum for Improved oil and gas recovery (IOGR) and Improved exploration (IE) between oil and gas companies and authorities in Norway.

Our ambition is to play a significant role in the future value creation on the Norwegian Continental Shelf through improved exploration and enhanced recovery efforts



Organisation



Committees

	Role/task	Participants	Meetings
General assembly	<ul style="list-style-type: none"> ◆ Decide budget ◆ Select members of committees 	<ul style="list-style-type: none"> ◆ All member companies 	<ul style="list-style-type: none"> ◆ Yearly
Selection committee	<ul style="list-style-type: none"> ◆ Propose members for committees 	<ul style="list-style-type: none"> ◆ 3 members 	<ul style="list-style-type: none"> ◆ Yearly
Management committee	<ul style="list-style-type: none"> ◆ (Re-) allocate budget ◆ Synergies between technical groups ◆ External communication ◆ Monitor activities 	<ul style="list-style-type: none"> ◆ Max 8 members 	<ul style="list-style-type: none"> ◆ Half-yearly
Secretariat	<ul style="list-style-type: none"> ◆ Arrange meetings ◆ Support activities ◆ Administration 	<ul style="list-style-type: none"> ◆ NPD 	<ul style="list-style-type: none"> ◆ As required
Technical committees	<ul style="list-style-type: none"> ◆ Select project proposals ◆ Facilitate project initiation ◆ Manage pre-projects 	<ul style="list-style-type: none"> ◆ Max 8 members ◆ Whereof 3 asset managers 	<ul style="list-style-type: none"> ◆ Quarterly
Network groups	<ul style="list-style-type: none"> ◆ Share information through workshops ◆ Generate ideas for new projects 	<ul style="list-style-type: none"> ◆ All member companies 	<ul style="list-style-type: none"> ◆ As required



Groups and networks



Improved Exploration

◆ Networks

- ◆ Sedimentology and Stratigraphy – 40 members
- ◆ Geophysical Methods – 23 members
- ◆ Structural Geology – 28 members

◆ Projects

- ◆ SAFARI Phase 1 – 30 members
- ◆ SAFARI Phase 2 – 22 members
- ◆ Sub-basalt – 17 members





RING project (Realfag Inspirasjon Næringsliv Glede)

- ◆ Workshop where students participate in practical activities related to natural science and technical demonstrations.
- ◆ Increase understanding about general business conditions' demands for knowledge and competence.
- ◆ Provide information about scientific related studies, suggest opportunities and provide information about career choices.
- ◆ For high school students.
- ◆ 2012: 900 students – 2013: 1800 students



Improved Oil and Gas Recovery

- ◆ Network

- ◆ Late Field – Maximum Recovery – 9 members

- ◆ Projects

- ◆ Improve EOR competence – 6 members
 - ◆ Predicting EOR potential from lab to field – 7 members



Members



Who are the members?

- ◆ 41 members
- ◆ All oil and gas companies with an office in Norway can become members.
- ◆ Most major companies on the NCS are members.
- ◆ Membership/membership fee is regulated in FORCE cooperation agreement.



The aim of the agreement

Aiming to improve recovery from existing fields through collaboration and the use of new technology.

- To create a consensus that collaboration across licenses for piloting and testing is both cost and time effective and will increase the reserve base and reduce unit costs.
- To create a consortium for piloting approved by the companies, which provides the framework for rights and obligations between the parties.
- ◆ **To regulate the execution and the financial relationship between the parties**
- ◆ **To define the organization of the project, progress, ownership and rights to use the results**

This agreement is owned by 41 petroleum companies



Seminars – an important meeting point



Seminars in 2012

- ◆ 4 seminars in 2012 – all arranged by Improved Exploration networks.



Seminars in 2013

- ◆ 2013 started off with a fully booked seminar!
 - ◆ 30.-31.01: Norway–East Greenland Conjugate Margins – Structural Geology
 - ◆ 21.03: SAFARI workshop.
 - ◆ 04.04: Barents Sea Shelf – Structural Geology
 - ◆ 06.-08.05: Field trip Gironde estuary and Aquitaine coast– SedStrat
 - ◆ 22.-23.05: Joining Forces seminar – Improved Exploration
 - ◆ 17.09: From Seismic Fantasy to Geological Fact – Geophysical Methods/SedStrat
 - ◆ 05.12: Biostratigraphic Solutions for the Norwegian Continental Margin – Improved Exploration
 - ◆ 10.-11.12: Advances in Sedimentology and Sequence Stratigraphy with applications to the Norwegian Shelf – Improved Exploration



Information

- ◆ For more information go to www.force.org
- ◆ NPD secretariat:
eva.halland@npd.no/tone.mydland@npd.no
- ◆ See you at the next seminar!

